

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-33 (previously cancelled).

34. (currently amended) An apparatus comprising a circuit that monitors a cumulative amount of charge associated with a power supply, wherein power is removed from a load when the cumulative amount of charge is at least equal to a predetermined value, the predetermined value selected to control an output characteristic of the power supply.

35. (previously presented) The apparatus of claim 34 wherein the load is a motor.

36. (previously presented) The apparatus of claim 34 further comprising drivers that are disabled responsive to the cumulative amount of charge being at least equal to the predetermined value.

37. (previously presented) The apparatus of claim 34 wherein the predetermined value is based on an amount of charge that will cause a spike when the amount of charge is removed from the power supply.

38. (previously presented) The apparatus of claim 34 wherein the cumulative amount of charge is monitored with an integrative device.

39. (previously presented) The apparatus of claim 34 wherein the load is an inductive type.

40. (currently amended) The apparatus of claim 34 wherein the circuit minimizes a spike on a the power supply.

41. (currently amended) A system comprising:

a motor coupleable to receive a power supply;

a sensor coupleable to the motor; and

a control circuit including an input and an output, the input is being coupleable to

the sensor, wherein the control circuit provides an output signal on the

output responsive to an amount of charge ~~that is~~ provided from the power

supply that is at least equal to a predetermined threshold, the predetermined

threshold selected to control an output characteristic of the power supply.

42. (previously presented) The system of claim 41 wherein the control circuit includes an integrator coupled between the input and the output.

43. (previously presented) The system of claim 41 wherein the control circuit includes a comparator coupled between the input and the output.

44. (previously presented) The system of claim 43 wherein the comparator is a one-shot type.

45. (previously presented) The system of claim 41 further comprising motor drivers that are coupleable to the motor and the output, wherein the motor drivers are controlled responsive to the output signal.

46. (previously presented) The system of claim 45 wherein the motor drivers are disabled responsive to the amount of charge being at least equal to a predetermined threshold.

47. (currently amended) A method comprising the steps of:
monitoring a charge amount being removed from a power supply; and
decoupling the power supply from a load responsive to the charge amount being at least equal to a predetermined level selected to control an output characteristic of the power supply.

48. (previously presented) The method of claim 47 wherein the load is an inductive type.

49. (previously presented) The method of claim 47 wherein the monitoring step includes the substep of monitoring an amount of charge that is proportional to the charge amount removed from the power supply.

50. (previously presented) The method of claim 49 wherein the substep includes summing charge.

51. (previously presented) The method of claim 47 wherein the power supply is decoupled from the load for a predetermined time.